

IN THE CLAIMS

1. (Currently amended) An ARPA-Internet Network Access/Service Provider device comprising:
 - a fax gateway including,
 - a storage device for storing an e-mail message received from an e-mail sender for transmission to a fax recipient through a packet switching network, the stored e-mail message to be converted to a fax document for transmission thereof to the fax recipient having access to a fax device;
 - at least one fax modem device for transmitting the fax document to the fax recipient through a public switching network, wherein a fax number designating the fax recipient is ~~not~~ contained in or obtained independently of the e-mail.
2. (Previously Presented) An AWA-Internet Network Access/Service Provider device as recited in claim 1 wherein the storage device further can store a fax telephone number associated with the fax device of the fax recipient, the fax telephone number to be used to establish a call for the transmission of the fax document.
3. (Previously Presented) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the storage device can store a time-of-day for specifying a range of time during which the fax document is transmitted.
4. (Previously Presented) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 further including a server device to store a fax telephone number associated with the fax device of the fax recipient, the fax telephone number for establishing a call for the transmission of the fax document, said server device to store a time-of-day for specifying a range of time during which the fax document is transmitted.
5. (Previously Presented) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the storage device to be used to create a fax cover page for transmission thereof to the fax recipient.
6. (Original) An AWA-Internet Network Access/Service Provider device as recited in claim 5 wherein the e-mail message includes an e-mail address and the fax cover page includes a sender field extracted from the e-mail address.

7. (Previously Presented) An ARPA-Internet Network Access/Service Provider device as recited in claim 6 wherein the ARPA-Internet Network Access/Service Provider device assigns an e-mail address to the fax recipient, the e-mail address being identified by a fax telephone number identifying the fax device and wherein the fax cover page for further including a destination field extracted from the fax recipient e-mail address.
8. (Original) An ARPA-Internet Network Access/Service Provider device as recited in claim 7 wherein the e-mail message includes a subject field and the ARPA-Internet Network Access/Service Provider device for including the e-mail subject field contents in the fax cover page prior to transmission thereof to the fax recipient.
9. (Original) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the storage device for further assigning a home directory for storage of e-mail messages directed to the fax recipient and upon receipt of the e-mail message, for storing the email message within the assigned home directory of the fax recipient.
10. (Original) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the fax gateway is coupled to the public switching telephone network
11. (Previously Presented) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the fax gateway is coupled to the public switching telephone network through a digital communications link.
12. (Original) An AWA-Internet Network Access/Service Provider device as recited in claim 1 wherein the fax gateway is coupled to the packet switching network through a digital communications link.
13. (Previously Presented): An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the storage device is a computer system having a conversion program to convert the e-mail message to a fax document.

14. (Original) An ARPA-Internet Network Access/Service Provider device as recited in claim 13 wherein the storage device is a computer system having an e-mail program for causing storage of the e-mail message.

15. (Original) An ARPA-Internet Network Access/Service Provider device as recited in claim 14 wherein the e-mail program and the conversion program reside externally to the fax gateway.

16. (Previously Presented) An ARPA-Internet Network Access/Service Provider device as recited in claim 1 wherein the fax gateway can receive a reply fax document from the fax recipient, and can convert the reply fax document to a reply e-mail message and transmit the reply e-mail message to the sender.

17. (Currently amended) A method for sending and receiving e-mail messages using a fax device comprising:

receiving an e-mail message through a data communications network from an e-mail sender;

converting the e-mail message into a fax document; and

retrieving a fax number independent of the e-mail message; and

transmitting the fax document to a fax recipient ~~without extracting a fax number from the e-mail message~~ thereby enabling the fax recipient to receive e-mail messages without access to the data networking network.

18. (Previously Presented) A method as recited in claim 17 further including receiving a reply from the fax recipient in the form of a reply fax document, converting the reply fax document to a reply e-mail message and transmitting the reply e-mail message through the data communications network.

19. (Previously Presented) A method as recited in claim 17 further including verifying a destination user address for identifying the fax recipient as being a known user.

20. (Original) A method as recited in claim 19 wherein upon unsuccessful verification of the destination user address sending a failed message.

21. (Currently amended) A computer readable medium having stored therein computer readable program code comprising instructions for performing the following steps:
- receiving an e-mail message, from through a data communications network;
 - converting the e-mail message into a fax document; and
 - retrieving a fax number independent of the e-mail message; and
 - transmitting the fax document to a fax recipient ~~without extracting a fax number from the e-mail message~~ thereby enabling the fax recipient to receive e-mail messages without access to the data networking network.
22. (Currently amended) A device comprising:
- means for receiving an e-mail message, from through a data communications network;
 - means for converting the e-mail message into a fax document; and
 - means for retrieving a fax number independent of the e-mail message; and
 - means for transmitting the fax document to a fax recipient ~~without extracting a fax number from the e-mail message~~ thereby enabling the fax recipient to receive e-mail messages without access to the data networking network.
23. (Previously Presented) The device of claim 22 further comprising means for receiving a reply from the fax recipient in the form of a reply fax document, converting the reply fax document to a reply e-mail message and transmitting the reply e-mail message through the data communications network.
24. (Previously Presented) The device of claim 22 further comprising means for verifying a destination user address for identifying the fax recipient as being a known user.